From owner-qrp-l@netcom.com Mon Oct 10 20:52:21 1994
Date: Mon, 10 Oct 94 15:02:46 -0700
From: Mark Monninger <markm@bigfoot.sps.mot.com>
Message-Id: <9410102202.AA06305@bigfoot.sps.mot.com>
Subject: 20M NN1G mods/advice?

Greetings all...

I'm about halfway thru construction of a 20M NN1G kit from Dan's (he rx board is complete...can I test it by itself?). So far all is well except for a few missing caps. I was just wondering if anyone has any interesting mods (AGC? RIT? Whatever?) for it or any advice or warnings about boxing it up, tuning, etc. I'm planning to use one of the Radio Shack boxes. I saw some notes late last month about instability and low output so I'll be on the lookout for those. Any additional advice/suggestions will be appreciated.

Thanks & 73...   Mark   AA7TA

From owner-qrp-l@netcom.com Mon Oct 10 05:29:56 1994
Subject: Another Sierra Up!
Date: Sun, 9 Oct 94 23:16:21 PDT
From: Eric Swartz WA6HHQ <erics@cruzio.com>
Message-Id: <9410092316.aa06784@cruzio.com>

Another Sierra is On The Air!

I almost finished it Sat night, but at 12 midnight my eyes gave out with 3 toroids to go. (I kept losing count of how many windings I had done, so I hit the sack and resumed winding Sunday).

Chuck is right! - You'll be dreaming of winding toroids in your sleep before finishing the Sierra and each of its band modules.

Finished it Sunday, tuned it up and put it on the air. (Super instructions Wayne - better than the old Heath's).

My first band module was for 20m. First contact out of the gate was with WB6FZH/KH6. When I told him I was running 1.75w he dropped to 2w. We had a 45 min QSO and I even discovered that he had lived here in Aptos for 2 years - what a small world!

Well, time to get back on 20m - there's an Oceana contest and I want to work some of those VK's, ZL's and JA's......

72, Eric   WA6HHQ   (Another happy Sierra owner....)

--

From owner-qrp-l@netcom.com Mon Oct 10 23:35:58 1994
Date: Sun, 9 Oct 1994 10:22:41 -0700 (PDT)
From: M G Laubach <matt@efn.org>
Subject: Re: drilling glass
Message-Id: <Pine.SUN.3.90.941009101306.6407A-100000@efn.org>

On Sat, 8 Oct 1994 jeffrey@math.hawaii.edu wrote:

>
> Gang,
> Anyone ever drilled through glass? I run a long wire into the shack
> and rather than using a board to feed the antenna wire through I
> was considering drilling a very small hole through the bedroom
> window. Only one hole will need to be drilled since
> I run the outside ground wire to the outside of the window
> frame, and all my interior ground wires to the inside of
> the frame, so the frame itself acts as a grounding bulkhead.
> Thus, I only need to drill a single hole through the window.
> (yes, the outside ground wire is disconnected during inclimate
> WX!)
>
It would probably be easier to go under the window sill or install a window lock and to keep the window jambed open a crack. I solved this problem using the former method. When they installed my new double pane windows, I didn't replace the trim underneath the sill, so I was left with a half inch crack under the window. I filled it with insulation, which kept the cold weather out. It works fine, and when I want to add more antennae, I have more than enough space to fill.

Drilling glass would be highly NOT recommended because all of the stress of the cable running through would eventually break the window. You would also not be able to seal it very well.

matt@efn.org

From owner-qrp-l@netcom.com Mon Oct 10 19:20:42 1994
From: JEVERHART@cayman.vf.ge.com
Date: Mon, 10 Oct 1994 16:00:11 -0400 (EDT)
Message-Id: <941010160011.21007496@cayman.vf.ge.com>
Subject: Re: drilling glass/Sugar Pop Morse

 Jeff, on Oct 7, you wrote wrote:

> Just received a complimentary copy of DOTS AND DASHES from
> someone on the net; this journal is for the OT landline
> telegraph ops. Apparently these folks have a telephone
> network set up so they can hook up their telegraph sounders
> and keys and have landline QSO's - they're using today's
> telephone lines to emulate the telegraph lines of yester-
> year! Amazing. This journal is the voice of the MORSE TELE-
> GRAPH CLUB, INC. organized 1942. If anyone is interested
> contact R.A. Iwasyk, 12350 W. Offner Rd., Manhattan, IL
> 06442. They speak American Morse.

Here's some more related stuff.

A few years ago I met one of the members of the MORSE TELEGRAPH CLUB in the Railroad Museum at Strasburg, Pa. Several guys had a setup simulating two morse telegraph offices in the building, complete with hand keys,sounders, green eyeshades and other authentic looking paraphernalia (no spell-checker on the VAX - I had to go to the dictionary for that!). He told me that the club sets up such exhibits at various public places to preserve their part of Americana. Many of the members are hams and they do communicate over the air in American Morse. Thise who do are, of course, bilingual (or is that bidigital or bicodal :) ?).

In our conversation, the fellow also mentioned that some of their members have private wire line setups (on their own property). Some also hold local and regional club meetings where they show off their equipment and operating skills. To top it all off, the East and West Coast chapters have simultaneous conventions (bicoastal, I guess). And since some of their numbers have the right connections (groan!), They are able to get a coast-to-coast dedicated wire pair and communicate via morse sounders over the 2K+ distance. I suspect that they do not really have a direct wire connection. AT&T or whoever it is these days probably sets up modems at a central office at either end of the continent and sends audio in between. I don't even want to think about the capacitance of a 2500 mile wire pair!

72,

Joe E. N2CX

From owner-qrp-l@netcom.com Mon Oct 10 05:02:42 1994
Date: Mon, 10 Oct 1994 01:12:50 -0600 (MDT)
From: "James P. Rybak   "
<jrybak@mesa5.mesa.colorado.edu>
Subject: E-Mail Address
Message-Id: <Pine.3.89.9410100103.A5688-0100000@mesa5.mesa.colorado.edu>

Does anyone know if Bill Kelsey (N8ET) of Kanga US has an e-mail address? Please tell me what it is if he has one.

Thanks. 73,

Jim W0KSD

From owner-qrp-l@netcom.com Mon Oct 10 21:14:18 1994
From: "Warren E. Lewis" <saswel@unx.sas.com>
Message-Id: <199410102146.AA14860@cardamom.unx.sas.com>
Subject: FALL QRP ARCI CW QSO PARTY
Date: Mon, 10 Oct 1994 17:46:08 -0400 (EDT)

Time to warm up the rigs, keys, keyers, and computers for this weekends contest. Looks like geomagnetic Activity should subside before the weekend, so just maybe conditions will be better than it was last spring.

I am trying to get together some internet teams like we did last spring. Anybody that is interested send me email by Wednesday afternoon so I can get the team listings off to N6GA before Friday. Lets see if we can better last years teams scores!!

Here is the information for the contest:

Fall QRP ARCI CW QSO Party - Contest Rules

Date/Time October 15, 1994-1200Z through October 16, 1994-2400Z

Exchange - Member -> RST, State/Providence/Country, ARCI Number
Non-Member -> RST, State/Providence/Country, Power Out

QSO Points - Member = 5 points
Non-Member, Different Continent = 4 points
Non-Member, Same Continent = 2 points

Multiplier - SPC (State/Providence/Country) Total All Bands.
The same station may be worked on more than one band
for QSO points and SPC credit.

Team Competition -

Teams consisting of 2 to 5 members will be a separate category apart from individual entries. Team members will be listed as individuals and the team score will be the total of the member's scores. Team entry will be all-band only. The team captain must send a list of members to the contest manager POSTMARKED at least ONE day prior to the QSO Party. Certificate awarded to the highest scoring team. All team members must operate in a QRP Category.

Power Multiplier

x10 - less than 1 watt out
x 7 - 1-5 watts out
x 1 - over 5 watts out

Suggested Frequencies

	--- CW ---	-- NOVICE --
160M	1810 KHz	
80M	3560 KHz	3710 KHz
40M	7040 KHz	7110 KHz
20M	14060 KHz	
15M	21060 KHz	21110 KHz
10M	28060 KHz	28110 KHz
6M	50060 KHz	

Calling - CQ QRP CQ QRP CQ QRP DE N6GA N6GA QRP TEST K

Score

SCORE = POINTS * SPC * POWER MULT

Entry may be an all-band, a single band, "HI-BAND" (20M, 15M, 10M, and 6M) or as a "LO-BAND" (160M, 80M, and 40M) in the QRP Category. QRO entries are considered as 'all-band'. All entries will compete against other entries in their own class of entry only. Certificates to the top 10 scores and to the top score in each single band, lo-band, and hi-band. Certificates for the top score in the 'QRO all-band' class. The contest manager reserves the right to recognize special significant entries with a certificate award.

Entry includes a copy of the logs and a separate summary sheet. Include duplicate check sheets with entries of 100 QSO's or more. Indicate the total time-on-air, including time spent listening. All entries include a complete, legible, name, call, and address. All entries must be received within 30 days following the contest. Late entries will be counted as check logs. Members indicate their QRP ARCI Member Number on all logs. Members and non-members indicate their input or output power for each entry and band. The highest power level used will determine the power multiplier. Output power is considered as 1/2 of the input power. During the QSO party, a maximum of 24 hours may be operated within the 36 hour time period.

Include a description of homebrew equipment, commercial equipment, and antennas used with each entry.

A summary sheet and sample log sheets are available from the contest manager for an SASE with 1 unit of postage.

Include a SASE with 1 unit of postage in the entry for a copy of the contest results. Results will be published in the next available issue of the QRP ARCI quarterly.

Contest Manager:

Cam Hartford N6GA
1959 Bridgeport Ave
Claremont, CA 91711

--
Warren E. Lewis saswel@unx.sas.com
Technical Support Division (919) 677-8001 x6542
SAS Institute Inc. PP-ASEL
Cary, NC KD4YRN DOD#0021

From owner-qrp-l@netcom.com Tue Oct 11 00:45:27 1994
Date: Mon, 10 Oct 94 15:59:54 HST
From: jeffrey@math.hawaii.edu (Jeffrey Herman)
Message-Id: <9410110159.AA15556@kahuna.math.hawaii.edu>
Subject: Re: FALL QRP ARCI CW QSO PARTY

Phooey. I hate it when there's more than one event on a single weekend! Don't forget the ARRL SET is on Saturday. Guess I had better not bring my CW key to our County Civil Defense/RACES HQ...

Jeff NH6IL

From owner-qrp-l@netcom.com Mon Oct 10 15:52:04 1994
Date: Mon, 10 Oct 94 12:17:27 EDT
From: teda@meaddata.com (Ted Albert)
Message-Id: <9410101617.AA01820@rain.meaddata.com>
Subject: Fox # 2

Gang:

I will run another fox session tonight. Chuck gave the go ahead. This will be a shortened version. I will start at 0200Z on 7.110 +/- qrm for 30 minutes. Then I will switch to 7.040 +/- qrm for 30 minutes. If I am still getting calls in either 30 minute window, I will stay on that frequency until all stations have been worked, so please wait, or check the other calling frequency to

see if I am still busy.

73 de Ted, KF8EE

From owner-qrp-l@netcom.com Mon Oct 10 08:16:41 1994
Date: Mon, 10 Oct 94 05:31:00 -0500
From: adams@chuck.dallas.sgi.com (chuck adams)
Message-Id: <9410101031.AA17668@chuck.dallas.sgi.com>
Subject: Fox #2

Not a very good night for fox hunting :(
Gang,

Here is report that I got from Ted from last nights hunt.

Thanks Ted for being persistant and hanging in there. It
may be lonely some nights being the fox. As QRPers we know
the feeling very well.

It may be that we need to forget Sunday nights, so that I can
post on Monday mornings to remind people of the schedule that
week. I might post on Fridays too, but hey, I don't want to
load down the reflector either. :-)

Anyone want to try another night this week? We can sneak in
someone this week and see if that works better. I was on but
didn't hear Ted. Now up to two countries and three states on
40M with Sierra. N6ULU may have his on during his stint as
the FOX. I'm up in the air as to whether 1 or 5W is best for
this activity. Don't want to handicap the huntees anymore than
they already are.

---From Ted-----

Time	Station	His RST	My RST	Name	QTH	END
0250Z	KB9ICC	589	569	Mark	Angola, IN	0257Z

Rig here was a Ten-Tec Argonaut II at 5 watts to an end-fed 120' wire. Freq
was 7.040 as announced. Band was long into Ohio tonight. Heard KL7's and
lots of W6 stations. Thank goodness for a memory keyer, kept the boredom to
a manageable level.

73 de Ted, KF8EE

---EOT-----

SIG
Chuck Adams K5FO CP-60
adams@sgi.com

From owner-qrp-l@netcom.com Mon Oct 10 14:57:34 1994
Message-Id: <INELVM1.LVE.543626090094283FINELVM1@INEL.GOV>
Date: 10 Oct 1994 09:26:09 MST
From: "Larry East" <LVE@inel.gov>
Subject: RE: Holes in glass

Nuclear & Radiological Physics Unit
MS 7113   533-4005   lve@inel.gov
 Years ago (more than I care to admit...) I needed to drill small holes in
 glass as part of a university project. I obtained some used dental drills
 from my friendly family dentist and found that the diamond types (coated
 with fine diamond particles) worked great! Don't know if dentists will
 still give out used drill bits these days, tho...

Have a productive day :-)

From owner-qrp-l@netcom.com Mon Oct 10 23:38:37 1994
Date: Mon, 10 Oct 1994 12:16:20 -0700 (PDT)
From: Stephen Lee <slee@u.washington.edu>
Subject: RE: Holes in glass
Message-Id: <Pine.3.89.9410101241.A33091-0100000@homer07.u.washington.edu>

A kid down the street drilled some holes in my windows for me.
He used a BB gun....makes nice little holes....and he even paid
for the windows....

Stephen Lee
KC7AVB

From owner-qrp-l@netcom.com Mon Oct 10 23:48:07 1994
Message-Id: <199410101847.LAA29418@mail3.netcom.com>
Date: Mon, 10 Oct 94 12:47:48 -0600
From: Mark J Schreiner <schreine@pogo.den.mmc.com>
Subject: RE: Holes in glass

I had read or heard a long time ago that a way to drill a hole in glass is to build a putty dike around the area where you need the hole. Fill the dike with turpentine, and use the end of a triangular file as a drill bit to drill the hole. I've never tried this, and it may be one of those things that a machinist would have tried to do prior to the center puch method. When you get an answer that you try and it works, enlighten the rest of us. Be sure to include details on the thickness of the glass, size of hole, success rate (does the procedure work every time, half the time, etc.).

de Mark, NK8Q/3

From owner-qrp-l@netcom.com Mon Oct 10 15:19:53 1994
Message-Id: <INELVM1.LVE.762635090094283FINELVM1@INEL.GOV>
Date: 10 Oct 1994 09:34:09 MST
From: "Larry East" <LVE@inel.gov>
Subject: QRP Books for sale

Nuclear & Radiological Physics Unit
MS 7113 533-4005 lve@inel.gov
I bought the "Low Power Communications" books a few weeks ago, but would like to pass them along to someone who can make better use of them. They contain a lot of good infofor someone new in ham radio and/or QRP, but the info is pretty much old hat to someone who has been around as long as I have... (sorry, didn't read the "fine print"!). There are two volumes:
Volume 1 -- QRP Basics by R. H. Arland, K7YHA
Volume 2 -- Advanced QRP Operating by Arland and others
They can both be yours for $25.00 shipped in the US (add $2.50 for Canada or $5.00 for overseas). First check or M.O. gets 'em:

Larry East W1HUE/7
1355 S. Rimline Dr.
Idaho Falls, ID 83401

(Home telephone: 208-529-2162)

72/73, Larry

Have a productive day :-)

From owner-qrp-l@netcom.com Mon Oct 10 23:33:54 1994
Message-Id: <199410100214.WAA23495@thor.INS.CWRU.Edu>
From: Stephen Trier <sct@po.cwru.edu>
Date: 10 Oct 1994 02:13:22 GMT
Subject: QRP-oriented QSL cards

Gang,

I'm finally working on a QSL card. Here's what I have so far, in no
particular order:

Pre-printed:
     County
     State
     Country
     Callsign (KG8IH)
     Name & Address
     E-mail address
     Long./Lat.
     Grid Square
     QSL PSE/TNX
     G-QRP number

Fill-in-the-blank:
     Call (his)
     Date/Time (both with "UTC" reminder)
     Freq.
     Mode
     RST
     Power
     Rig
     Antenna

I forgot power, rig, and antenna on the first edition, but I regained
my senses in time. ;-)

What's the rule of thumb for membership numbers for clubs like QRP ARCI,
where the numbers are used as evidence of the contact? Should they be
printed on the QSL card?

Did I forget anything? :-)

           Stephen

--
Stephen Trier   "Here, but for an extraordinary physics teacher,
sct@po.cwru.edu   goes a saxophone player."
KG8IH   - Albert Overhauser, National Science Medal winner

From owner-qrp-l@netcom.com Mon Oct 10 05:13:19 1994

Subject: Re: Sierra Xcvr 40M
Date: Mon, 10 Oct 94 0:01:52 PDT
From: "Stan Goldstein, N6ULU" <stan@cruzio.com>
Message-Id: <9410100001.aa08185@cruzio.com>

Put 20 m on the sierra tonight and found only 1.1 watt out, so
squeezed L6 and spread L5 and the power came up to 1.9 watts.
Quite dramatic I thought , so i tried it on the 40m module.
I already had 2.1 watts out there, but did get it up to 2.4 watts
There was an Oceania contest last night so I got to work a couple
of vk's, a zl and a yj that is on dxd-pedition there.
This qrp stuff is fun and really helps me become a better operator
cu 73/72.

--
Stan Goldstein , N6ULU

From owner-qrp-l@netcom.com Mon Oct 10 21:17:26 1994
Message-Id: <199410102147.OAA09224@mail.netcom.com>
From: Paul Mackanos <pmackano@weather.Brockport.EDU>
Subject: Subscribe Digest
Date: Mon, 10 Oct 1994 17:47:06 -0400 (EDT)

From owner-qrp-l@netcom.com Mon Oct 10 18:33:09 1994
Message-Id: <199410101956.AA00461@halcyon.com>
Date: Mon, 10 Oct 1994 00:57:25 -0700
From: xenolith@halcyon.com (Kevin Purcell)
Subject: Using Overtone Crystals For Filters

This was posted to homebrew newsgroup, but I though people here (the
inet-riggers?) might be interested.

I have a very strong bias for single conversion receivers. Having them
convert to a VHF IF gets rid of the image problems associated with lower
IFs. The problem is getting a tight xtal filter in the low VHF that you can
afford or build yourself.

One suggestion was using overtone xtals in a Cohn filter topology. Ray,
WD5IFS has tried it and it works and you can get the xtals cheaply too!

This technique is also used in the Index Labs QRP rig (another reason its a
nice rig!).

These are Ray's results:

>Date: 6 Oct 94 22:49:01 GMT
>From: mack@mails.imed.COM

>Subject: Using Overtone Crystals For Filters
>
>
>   >Date: 20 Sep 1994 06:34:18 GMT
>   >From:
>   >ihnp4.ucsd.edu!munnari.oz.au!newsroom.utas.edu.au!news@network.ucsd.e
>   du
>   >Subject: Overtone Crystal Filter
>   >Ian wrote:
>
>   >Electronics Australia published an SSB receiver with an IF of 8MHZ
>   >using 3 8MHZ computer xtals in a ladder network configuration. All
>   >the capacitors were 100pF. The article said using a ladder network
>   >enabled the xtals to be all resonant at the same frequency.
>
>   >Can the same idea be used with overtone xtals? For example, I would
>   >like to build a 48MHz IF filter.
>
>   >Thanks for any info, Ian
>
>   Well, I took this as a personal challenge to find out what's what. I
>   hooked up 3 48MHz microprocessor crystals to the network analyser.
>   These crystals were CTS model MP-480. I measured them at 16 MHz and
>   at 48 MHz for their equivalent circuits. At 16 MHz they showed very
>   good response with about 3 ohms equivalent series resistance and Q
>   over 100,000. At 48 MHz 2 showed good Q of about 160,000 and 15 Ohms
>   equivalent resistance. The third had much better series R of only 9
>   Ohms, but the Q was considerably less and it was also not a good match
>   for frequency.
>
>   I used the design equations from the May 1982 QST article (Hayward)
>   for 2, 3, and 5 element filters. They all showed reasonable
>   calculated values as long as the bandwidth was between 1000 Hz and
>   3000 Hz. Outside these limits either the capacitors got really small
>   or the load impedance for the filter got really small. In the 2500 to
>   3000 Hz range the load impedance is high enough that there is minimal
>   insetion loss.
>
>   The 2 element filter I built with the 2 good crystals from my parts
>   bin showed good agreement with the formulas when measured on the
>   network analyser.
>
>   Digi-Key sells microprocessor crystals for about US $1.35 in this
>   frequecy range or 10 for US $11.00. This is cheap enough to buy a
>   bunch and select for matching.
>
>   I hope this gives you encouragement to try this, Ian. Here is a short
>   bibliography of articles which should help if you try to build a

> filter. I have arranged them in order of the amount of help they were
> to me:
>
> QST May 1982 pp 21-27
> Communications Quarterly Winter 1993 pp 11-18
> QST Nov 1980 pp 20-23
> QST Jul 1987 pp 24-29
>
> I seem to recall one in an old issue of RF Design but I haven't had
> time to look for it.
>
> Ray
> WD5IFS
> mack@mails.imed.com

Kevin Purcell N7WIM / G8UDP xenolith@halcyon.com 206/649-6489
Seattle dBug Mac Developers SIG organiser kevinpu@atm.com

From owner-qrp-l@netcom.com Mon Oct 10 20:56:36 1994
Date: Mon, 10 Oct 1994 15:41:27 -0500 (CDT)
From: Bob Howle <bhowle@freud.inst.com>
Subject: What Happened to List?
Message-Id: <Pine.SOL.3.90.941010153843.4785A-100000@freud>

What's happened to the QRP list? I thought I'd moved with the list from
Think.com to Netcom.com, but I havent't received any e-mail in weeks.

bhowle@inst.com